

ANDOVER PLANNING BOARD

**APPLICATION FOR SPECIAL PERMIT
FOR EARTH MOVEMENT**

(Section 6.3. of the Andover Zoning Bylaw)

APPLICATION MUST BE COMPLETE

(Please print or type)

This application, completed and signed, shall be submitted with 18 copies of the application and narrative, 12 copies of the plans, 1 CD with PDFs of the plans and 7 copies of any drainage report.

Application is hereby made for a Special Permit for removal and/or regrading of Earth Materials pursuant to Section 6.3 of the Zoning By-Law and Section 3.0 of the Rules Governing Special Permits of the Andover Planning Board.

1. Applicant(s): _____
 Contact Name: _____
 Mailing Address: _____
 Telephone Number: _____

2. Record Owner(s) Name: _____
 Mailing Address: _____

3. Interest in Property: _____ Owner _____ Other _____
 (Describe): _____

4. Engineer: _____
 Contact Name: _____
 Mailing Address: _____
 Telephone Number: _____
 Name of Professional Surveyor: _____ PLS # _____

5. Name of Subdivision: _____

6. Square footage of roadway construction land disturbance: _____

7. Square footage of total land disturbance: _____
 (Attach a breakdown of land disturbance for roadway construction including drainage system and each individual lot.)

8. Property Address: Bancroft Road
Assessors Map 59 Lot(s) 30
Zoning District(s) including overlay districts: SRB

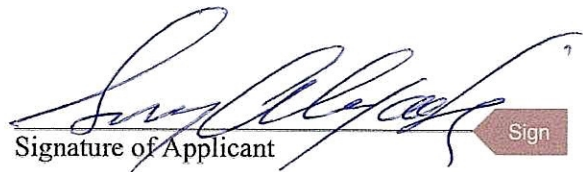

9. Site Information: The application shall include an engineering report and plan which provides information on all of the following in narrative and graphic detail:
- a. Site soil types and boundaries based on U.S.D.A. S.C.S standards;
 - b. Areas of steep slopes, i.e. greater than 15%;
 - c. Predominant site vegetation, including existing cleared areas;
 - d. Locations of ledge/rock outcroppings;
 - e. Locations of standing water, wetlands, and perennial or intermittent streams;
 - f. Proposed locations of earth material stockpiles;
 - g. Maximum depth and width of proposed cuts;
 - h. Volume of earth materials to be removed from the site;
 - i. Type(s) of earth materials to be removed;
 - j. Destination(s) of material to be removed;
 - k. Estimated number of truckloads of materials;
 - l. Proposed schedule of removal operations;
 - m. Volume of earth materials to be regarded on the site;
 - n. Proposed soil and slope stabilization program;
 - o. Certified statement by the engineer that the data submitted to the Board is accurate;

The Applicant shall satisfactorily demonstrate to the Board that the subdivision plan associated with the request for removal and/or regarding makes the best feasible use of the existing topography of the site.


Signature of Record Owner 

Greg Alexandris
Print Name

Date


Signature of Applicant 

Same
Print Name

Date

REPORT TO ACCOMPANY APPLICATION FOR SPECIAL PERMIT FOR EARTH MOVEMENT

9 Bancroft Road, Andover, Massachusetts

Introduction

Description: The site is located at 9 Bancroft Road between South Main Street (Rt. 28) and Holt Road in Andover, Massachusetts and consists of approximately 3.9± acres. The project involves subdividing one (1) lot into three (3) lots, two (2) parcels and a local road (Eden Lane). Topography generally slopes from the easterly boundary of the property to the northwest corner of the site along Bancroft Road. The existing vegetation mainly consists of grass areas with a tree line area along the perimeter of the property. The soils as mapped by the Natural Resource Conservation Service (NRCS) are mainly Woodbridge Series (fine sandy loam).

7. Land Disturbances

Description	Volume (c.y.)						Volume Export (c.y.)
	Cut	Basement	Tot. Cut	Fill	Basement	Tot. Cut	
Roadway	550	-	550	292	-	292	258
Lot 1	236	201	437	216	-	216	221
Lot 2	24	79	103	698	47	745	(642)
Lot 3	82	536	618	274	-	274	344
Parcel A	-	-	-	-	-	-	-
Parcel B	868	-	868	456	-	456	412
TOTALS:	1,760	816	2,576	1,936	47	1,983	593

9. Site Information

- a. *Site soil type and boundaries based on U.S.D.A. Natural Resource Conservation Service Standards:*

The soils within the project consist of the Woodbridge fine sandy loam series. Refer to the Soils Map at the end of this report and the Existing Conditions Plan (Definitive Subdivision Plan Set, Sheets 3 of 7).

b. Areas of Steep Slopes, i.e. greater than 15%:

There are a few small areas within the site that exceed fifteen (15) percent. These areas total approximately 1,500 square feet out of the total area of the site (168,800 square feet). None of these areas exceed twenty-five (25) percent.

c. Predominant site vegetation, including existing cleared areas:

The predominant site vegetation is mainly grass with treed areas along the perimeter of the property. Treed areas include various species including oak and maple.

d. Locations of ledge/rock outcroppings:

No areas of ledge/rock outcropping were observed on the site.

e. Locations of standing water, wetlands, and perennial or intermittent streams:

There are no wetland areas that exist on the property.

f. Proposed locations of earth material stockpiles:

The location of the earth material stockpile will be between lots 1 and 2 as shown on the Grading & Erosion Control Plan (sheet 4 of 7). Note that there are no wetlands within 100 feet of the earth material stockpile.

g. Maximum depth and width of proposed cuts:

The depth of cuts varies with the greatest depth being approximately 2.5 feet. With the excavation for the foundations, some cuts may be approximately 6.5 feet. Refer to the Earthwork Exhibit in this report.

h. Volume of earth materials to be removed from the site:

No material export is anticipated to balance the site.

i. Type(s) of earth materials to be removed:

The primary earth material to be removed from the site is the Woodbridge soil series. This series consists of moderately well drained loamy soils formed in lodgment till. They are very deep to bedrock and moderately deep to a densic contact. They are nearly level to moderately steep soils on hills, drumlins, till plains, and ground moraines. Slope ranges from 0 to 25 percent.

j. Proposed soil and slope stabilization program:

- a) Install erosion control measures (Compost Filter Socks or equal) at the downgradient portion of the property to prevent sediment from leaving the site.
- b) Install sediment control measures around all catch basins and Erosion Control Silt Sacks in the basins.
- c) Grade site to bring the roadway to subgrade, install utilities, place binder course of pavement, and loam and seed side slopes.
- d) Construct houses, loam, and seed all disturbed areas.

k. Destination(s) of materials to be removed:

Any export from the site is expected to be transported to 39 Sunset Rock Road.

l. Estimated number of truckloads of materials:

Assuming an average of eighteen (18) cubic yards per truck, the estimated number of truckloads of materials is one hundred (117).

m. Proposed schedule of removal operations:

Although the schedule of operations is unknown at this time, typically the operation time is between 7:00 am and 5:00 pm.

n. Volume of earth materials to be re-graded on the site:

The site cut volume, including foundations and basements, is approximately 4,000 cubic yards and the site fill volume is approximately 1,900 cubic yards. No assumption has been made for shrinkage or expansion in the calculations so the net excess is approximately 2,100 cubic yards.

o. Proposed soil and slope stabilization program:

All disturbed areas remaining idle for more than fourteen (14) days shall be stabilized. Disturbed portions of the site where construction activities have permanently ceased shall be hydroseeded within three weeks of completion. All disturbed areas shall be loamed and seeded within six (6) months from the start of that lot construction.

p. Certified statement by the engineer that the date submitted to the Board is accurate:

I certify that to the best of my knowledge, the information presented in this report is accurate.



Prepared by: Daniel Koravos, P.E.
Date: July 14, 2024

Norse Environmental Services Test Pit Data

December 12, 2022

See Following Page

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

A. Facility Information

1. Owner Information:

Greg Alexandris

Street Address:

9 Bancroft Street

Town:

Andover

MA

01810

City/Town

State

Zip Code

B. Site Information

1. (Check one) New Construction Upgrade Repair

2. Published Soil Survey available? Yes No If yes: Web Soil Survey 1"=1410 310
Year Published Publication Scale Soil Map Unit
Woodbridge None
Soil Name Soil limitations

3. Surficial Geological Report available? Yes No If yes: _____
Year Published Publication Scale Map Unit

Geologic Material

Landform

4. Flood Rate Insurance Map:

Above the 500-year flood boundary? Yes No Within the 100-year flood boundary? Yes No
Within the 500-year flood boundary? Yes No Within a Velocity Zone? Yes No

5. Wetland Area: National Wetland Inventory Map

Map Unit

Name

Wetlands Conservancy Program Map

Map Unit

Name

6. Current Water Resource Conditions (USGS) Aug/2022 Range: Above Normal Normal Below Normal
Month/Year

7. Other references reviewed: _____

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

C. On-Site Review

Deep Observation Hole Number: DH 1 – DH 4 12/12/22 10:00 a.m. Cloudy - 33F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole: See Plan

Location (Identify on Plan): See Plan

2. Land Use: Residential site – farm field None Varies
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

Grasses
Vegetation

Drumloldal
Landform

Back Slope
Position on landscape (attach sheet)

3. Distances from: Open Water Body >10 ft. Drainage Way >100 ft. Possible Wet Area >100 ft.
feet feet feet
Property Line >10 ft. Drinking Water Well _____ Other _____
feet feet

4. Parent Material: Glacial Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No - Varies throughout the Deep Holes – See next page

If Yes: Depth Weeping from Pit _____ Depth Standing Water in Hole _____

Estimated Depth to High Groundwater: _____ _____
inches elevation

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-1

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-14"	Ap	10YR 2/2				FSL			Granular	Friable	
14-33"	Bw	10YR 5/6				FSL			Weak Blocky	Friable	
33-48"	C	2.5Y 5/3	43"	7.5YR 5/6	20%	SL			Massive	Friable	

Additional Notes: ESHWT 43" / No Observed Water

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-2

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-14"	Ap	10YR 2/2				FSL			Granular	Friable	
14-28"	Bw	10YR 5/6				FSL			Weak Blocky	Friable	
28-51"	C	2.5Y 5/3	32"	7.5YR 5/6	20%	SL			Massive	Friable	

Additional Notes: ESHWT 32" / No Observed Water

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-3

Depth (In.)	Soil Horizon/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-14"	Ap	10YR 2/2				FSL			Granular	Friable	
14-25"	Bw	10YR 5/6				FSL			Weak Blocky	Friable	
25-55"	C	2.5Y 5/3	43"	7.5YR 5/6	15%	SL			Massive	Friable	

Additional Notes: ESHWT 43"/ No Observed Water

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-4

Depth (In.)	Soil Horiz on/ Layer	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-9"	Ap	10YR 2/2				FSL			Granular	Friable	
9-24"	Bw	10YR 5/6				FSL			Weak Blocky	Friable	
24-51"	C	2.5Y 5/4	43"	7.5YR 6/6	20%	SL			Massive	Friable	

Additional Notes: ESHWT 43" / No Observed Water

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

D. Certification

I certify that I have passed the soil evaluator examination* approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

Signature of Soil Evaluator

Maureen Herald

Typed or Printed Name of Soil Evaluator

Date

SE13578

Soil Evaluator Number

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

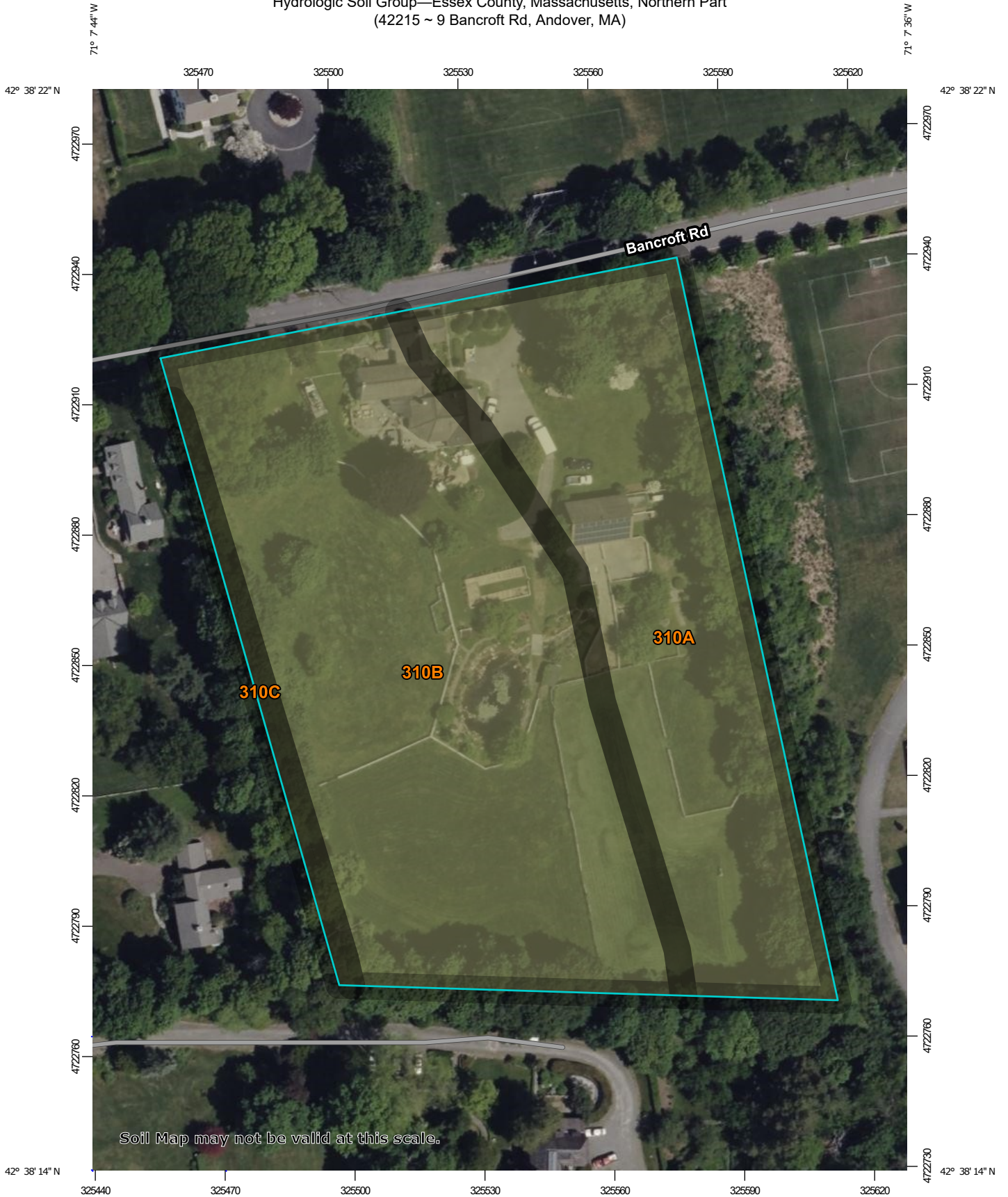
E. Test Pit Locations

See Plan

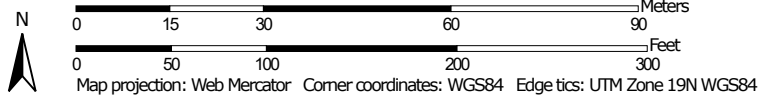
NRCS – National Cooperative Soils Survey

See Following Pages

Hydrologic Soil Group—Essex County, Massachusetts, Northern Part
(42215 ~ 9 Bancroft Rd, Andover, MA)




Map Scale: 1:1,210 if printed on A portrait (8.5" x 11") sheet.



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines


 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points






 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available


Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Essex County, Massachusetts, Northern Part
 Survey Area Data: Version 18, Sep 9, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 22, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
310A	Woodbridge fine sandy loam, 0 to 3 percent slopes	C/D	1.8	38.6%
310B	Woodbridge fine sandy loam, 3 to 8 percent slopes	C/D	2.8	59.9%
310C	Woodbridge fine sandy loam, 8 to 15 percent slopes	C/D	0.1	1.5%
Totals for Area of Interest			4.7	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

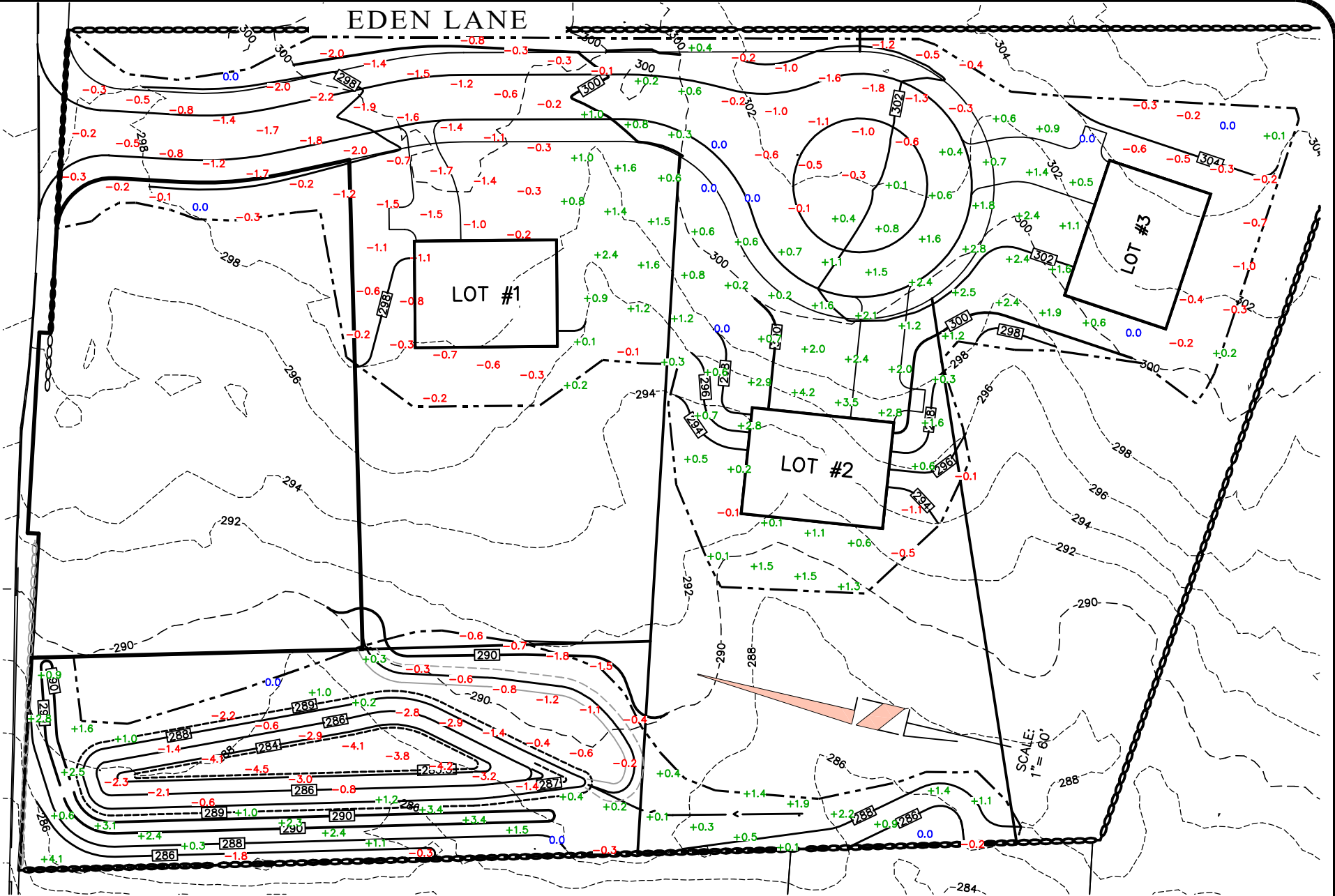
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Earthwork Cut/Fill Exhibit

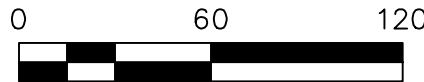
See Following Pages

EDEN LANE



DK Engineering LLC

59 Granite Lane, Chester, NH 03036
 Tel. Number.: (603) 505-5226
 E-mail Address: dan@dke.llc



Assessor's Map & Lot: Map 59 & Lot 30	
Project No.: 42215	Drawing Scale: 1" = 60'
Plan Date: 05/26/24	Revised Date: 07/14/24

Sheet Title: EARTHWORK QUANTITIES CUT/FILL MAP
